

Lifeng Yang

List of Publications by Year in descending order

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41
papers

2,666
citations

201674

27
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265206

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43
docs citations

43
times ranked

1754
citing authors

#	ARTICLE	IF	CITATIONS
1	Responsive Porous Material for Discrimination and Selective Capture of Low-Concentration SO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5936-5941.	3.7	6
2	One-step removal of alkynes and propadiene from cracking gases using a multi-functional molecular separator. <i>Nature Communications</i> , 2022, 13, .	12.8	22
3	Pillared-layer ultramicroporous material for highly selective SO ₂ capture from CO ₂ mixtures. <i>Separation and Purification Technology</i> , 2022, 295, 121337.	7.9	8
4	Nanoporous Water-Stable Zr-Based Metal-Organic Frameworks for Water Adsorption. <i>ACS Applied Nano Materials</i> , 2021, 4, 4346-4350.	5.0	22
5	Benchmark C ₂ H ₂ /CO ₂ Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie</i> , 2021, 133, 16131-16138.	2.0	43
6	Benchmark C ₂ H ₂ /CO ₂ Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15995-16002.	13.8	148
7	Highly Microporous Activated Carbons with Industrial Potential for Selective Adsorption of Ethane over Ethylene. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13301-13308.	3.7	6
8	Geometry control of adsorption sites in sulfonate-pillared hybrid ultramicroporous materials for efficient C ₄ olefin separations. <i>Chemical Engineering Journal</i> , 2021, 425, 130580.	12.7	13
9	Remarkable separation of C ₅ olefins in anion-pillared hybrid porous materials. <i>Nano Research</i> , 2021, 14, 541-545.	10.4	16
10	Polycatenated Molecular Cage-Based Propane Trap for Propylene Purification with Recorded Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2525-2530.	8.0	50
11	Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size-Sieving. <i>Angewandte Chemie</i> , 2020, 132, 3451-3456.	2.0	63
12	Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size-Sieving. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3423-3428.	13.8	91
13	Efficient separation of xylene isomers by a guest-responsive metal-organic framework with rotational anionic sites. <i>Nature Communications</i> , 2020, 11, 5456.	12.8	68
14	Synthesis of Ionic Ultramicroporous Polymers for Selective Separation of Acetylene from Ethylene. <i>Advanced Materials</i> , 2020, 32, e1907601.	21.0	54
15	Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. <i>Angewandte Chemie</i> , 2020, 132, 17817-17822.	2.0	28
16	Energy-efficient separation alternatives: metal-organic frameworks and membranes for hydrocarbon separation. <i>Chemical Society Reviews</i> , 2020, 49, 5359-5406.	38.1	370
17	Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17664-17669.	13.8	110
18	Amphiphilic Super-Wetting Ionic-Liquid-Based Lower Critical Solution Temperature System: Preparation, Characterization, and Excellent Dispersion Performance for Nanostructured Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3253-3260.	6.7	4

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19	Titelbild: Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size-Sieving (Angew. Chem. 9/2020). Angewandte Chemie, 2020, 132, 3365-3365.	2.0	0
20	Efficient Separation of Propene and Propane Using Anion-Pillared Metal-Organic Frameworks. Industrial & Engineering Chemistry Research, 2020, 59, 3531-3537.	3.7	44
21	A Microporous Metal-Organic Framework Supramolecularly Assembled from a Cu ^{II} Dodecaborate Cluster Complex for Selective Gas Separation. Angewandte Chemie - International Edition, 2019, 58, 8145-8150.	13.8	165
22	A Microporous Metal-Organic Framework Supramolecularly Assembled from a Cu ^{II} Dodecaborate Cluster Complex for Selective Gas Separation. Angewandte Chemie, 2019, 131, 8229-8234.	2.0	45
23	A novel interpenetrated anion-pillared porous material with high water tolerance afforded efficient C ₂ H ₂ /C ₂ H ₄ separation. Chemical Communications, 2019, 55, 5001-5004.	4.1	41
24	Bioinspired Binders Actively Controlling Ion Migration and Accommodating Volume Change in High Sulfur Loading Lithium-Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1902938.	19.5	70
25	Pillar iodination in functional boron cage hybrid supramolecular frameworks for high performance separation of light hydrocarbons. Journal of Materials Chemistry A, 2019, 7, 27560-27566.	10.3	71
26	Anion Pillared Metal-Organic Framework Embedded with Molecular Rotors for Size-Selective Capture of CO ₂ from CH ₄ and N ₂ . ACS Sustainable Chemistry and Engineering, 2019, 7, 3138-3144.	6.7	47
27	Gas Separation: A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials (Adv. Mater. 10/2018). Advanced Materials, 2018, 30, 1870068.	21.0	3
28	Metal nanoparticles in ionic liquid-solvent biphasic systems as active catalysts for acetylene hydrochlorination. AIChE Journal, 2018, 64, 2536-2544.	3.6	18
29	A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. Advanced Materials, 2018, 30, 1705374.	21.0	133
30	A highly sensitive flexible metal-organic framework sets a new benchmark for separating propyne from propylene. Journal of Materials Chemistry A, 2018, 6, 24452-24458.	10.3	67
31	Hexafluorogermanate (GeFSIX) Anion-Functionalized Hybrid Ultramicroporous Materials for Efficiently Trapping Acetylene from Ethylene. Industrial & Engineering Chemistry Research, 2018, 57, 7266-7274.	3.7	70
32	A thermostable anion-pillared metal-organic framework for C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ separations. Chemical Engineering Journal, 2018, 352, 803-810.	12.7	85
33	An Asymmetric Anion-Pillared Metal-Organic Framework as a Multisite Adsorbent Enables Simultaneous Removal of Propyne and Propadiene from Propylene. Angewandte Chemie, 2018, 130, 13329-13333.	2.0	34
34	An Asymmetric Anion-Pillared Metal-Organic Framework as a Multisite Adsorbent Enables Simultaneous Removal of Propyne and Propadiene from Propylene. Angewandte Chemie - International Edition, 2018, 57, 13145-13149.	13.8	85
35	Highly efficient separation of methane from nitrogen on a squarate-based metal-organic framework. AIChE Journal, 2018, 64, 3681-3689.	3.6	94
36	Ultrahigh and Selective SO ₂ Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. Advanced Materials, 2017, 29, 1606929.	21.0	183

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37	Sorting of C ₄ Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size Sieving. <i>Angewandte Chemie</i> , 2017, 129, 16500-16505.	2.0	41
38	Sorting of C ₄ Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size Sieving. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16282-16287.	13.8	146
39	Gas Purification: Ultrahigh and Selective SO ₂ Uptake in Inorganic Anion Pillared Hybrid Porous Materials (<i>Adv. Mater.</i> 28/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	3
40	Innentitelbild: Sorting of C ₄ Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size Sieving (<i>Angew. Chem.</i> 51/2017). <i>Angewandte Chemie</i> , 2017, 129, 16310-16310.	2.0	1
41	Confining Noble Metal (Pd, Au, Pt) Nanoparticles in Surfactant Ionic Liquids: Active Non-Mercury Catalysts for Hydrochlorination of Acetylene. <i>ACS Catalysis</i> , 2015, 5, 6724-6731.	11.2	94